

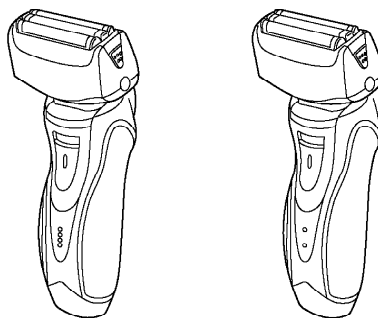
ORDER NO. SD0509U43C1

E6

Service Manual

Wet/Dry Rechargeable Shaver

ES7035-U1 / ES7037-U1



SPECIFICATIONS

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Power source	AC 120V, 50-60Hz
Power consumption (during charge)	Approx. 8W
Motor voltage	2.4V DC
Charging time	1 Hour
Shaves per charge	10 times (3 minutes shave)
Measurement	(H)15.3 x (W)6.0 x (D)4.6 cm
Weight	200g
Supplied accessory	Soft case

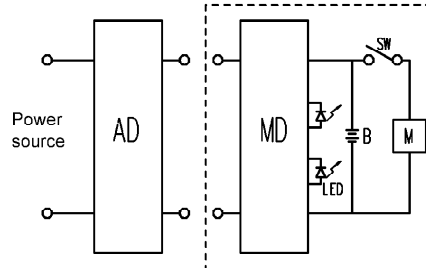
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WARNING

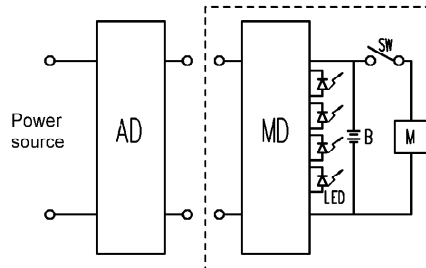
This service information is designed for experienced repair technicians only and is not designed for use by the general public. It does not contain warnings or cautions to advise non-technical individuals of potential dangers in attempting to service a product. Products powered by electricity should be serviced or repaired only by experienced professional technicians. Any attempt to service or repair the product or products dealt with in this service information by anyone else could result in serious injury or death.

1. SCHEMATIC DIAGRAM

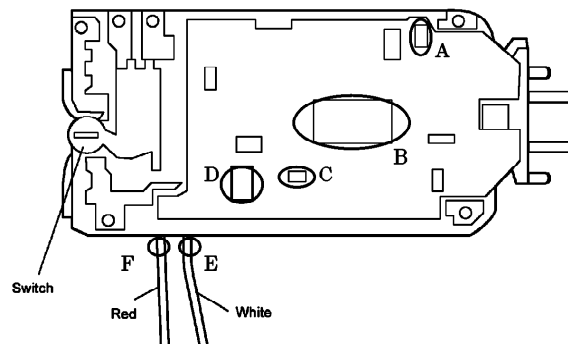
1.1. ES7035



1.2. ES7037



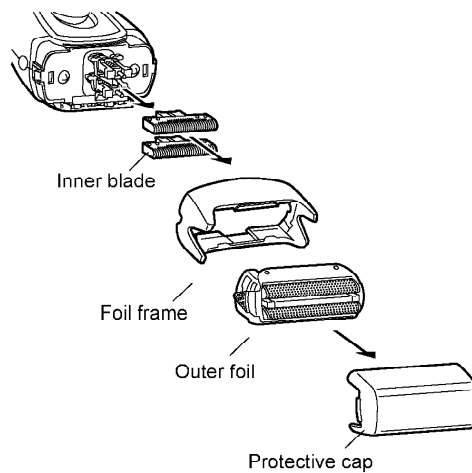
2. WIRING CONNECTION DIAGRAM



3. DISASSEMBLY INSTRUCTION

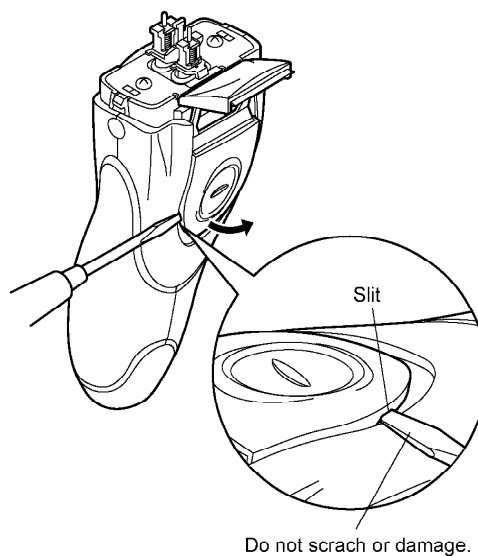
Follow the procedure below to disassemble the main unit.

1. Remove the cap, the outer foil with foil frame and the inner blade.

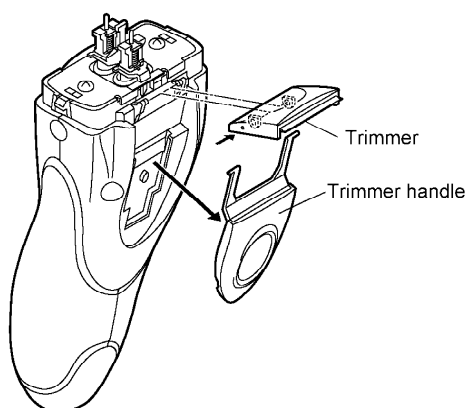


2. Slide the trimmer handle up to open the trimmer and unhook the trimmer handle by inserting something like a slotted screwdriver or plastic spatula into a slit.

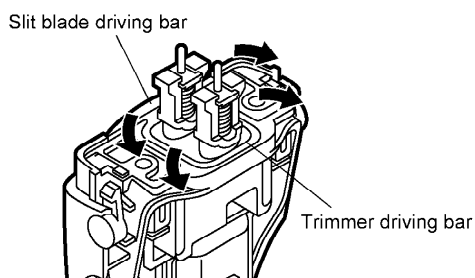
NOTE: Make sure not to scratch or damage on the housing.



3. Remove trimmer and trimmer handle.

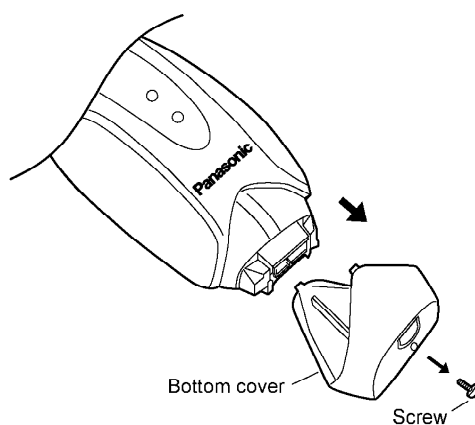


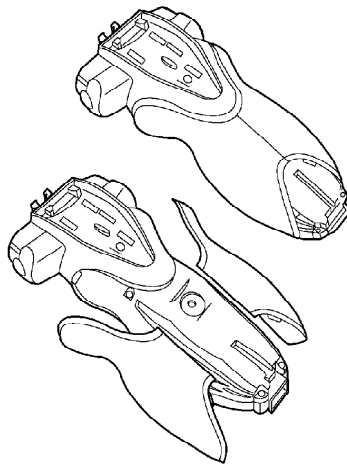
- 4. To remove the trimmer driving bar or the slit blade driving bar, press bars outward.**



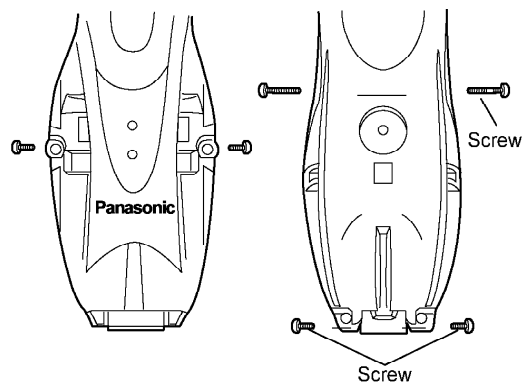
- 5. Loosen a screw and remove the bottom cover.**

- 6. Slide down the side panels for both sides.**

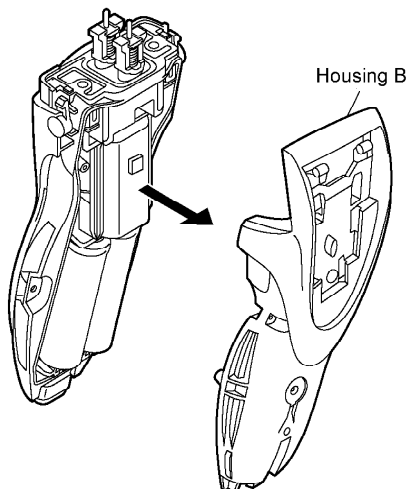




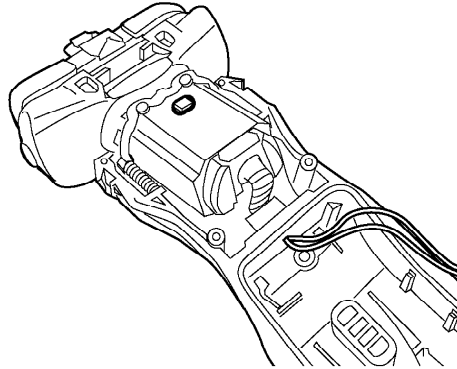
7. Loosen two screws on front and four screws on the back side, and remove two housing clips.



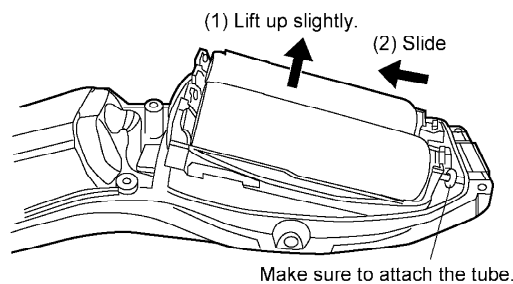
8. Take out the housing B.



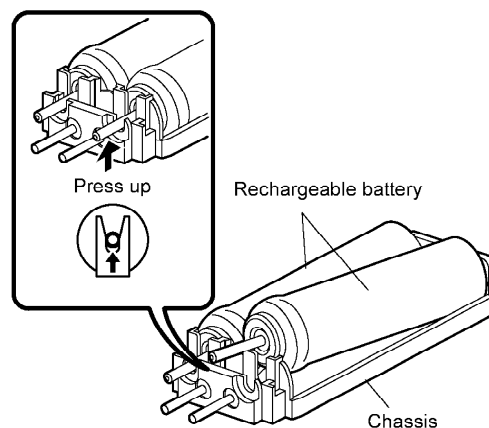
9. Remove the motor assembly and tube holder.



10. And take out the battery assembly from housing A.



11. Remove the battery o-ring and washer in each battery. Take out the rechargeable batteries from the chassis.

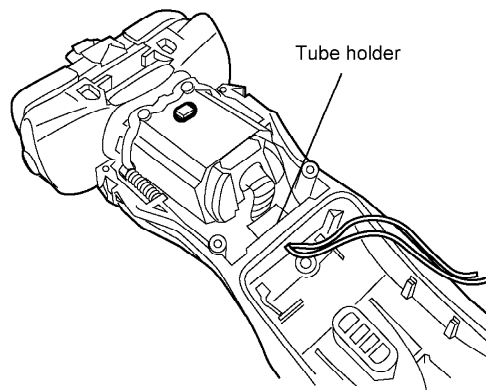


4. CAUTION IN ASSEMBLY

NOTE: When reassembling, replace the new waterproof rubber. Make sure whether there is NO foreign substance sticking around a part covered with water seal.

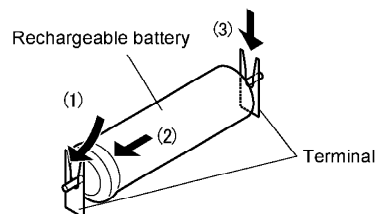
4.1. Motor

Insert the motor and press fit the waterproof tube neatly under the tube holder. And put the float spring properly.



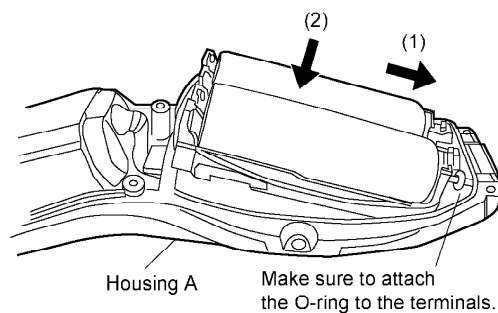
4.2. Rechargeable batteries

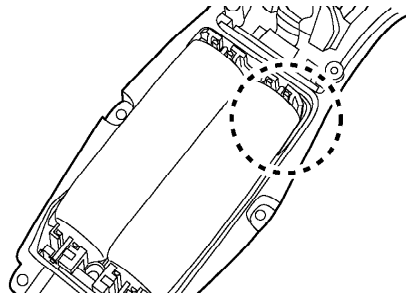
Insert the rechargeable batteries into chassis. Attach the battery o-ring and washer to the battery.



Put the battery assembly from the battery terminal side into housing A, and insert the motor side into housing A.

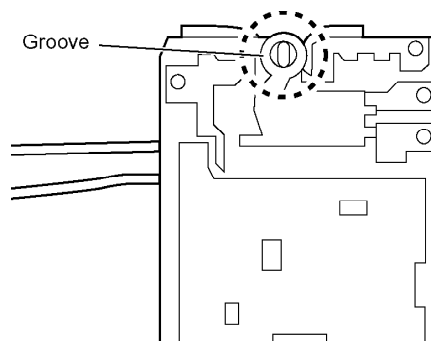
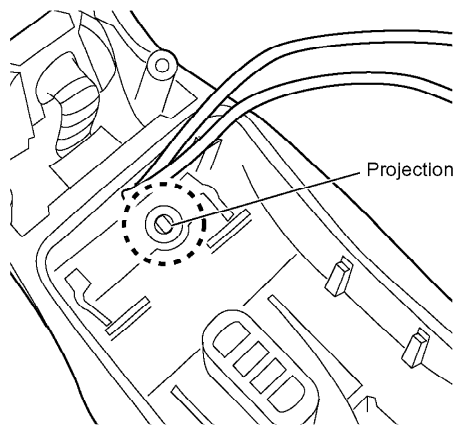
NOTE: Press fit the lead wire neatly in order to prevent pinching.





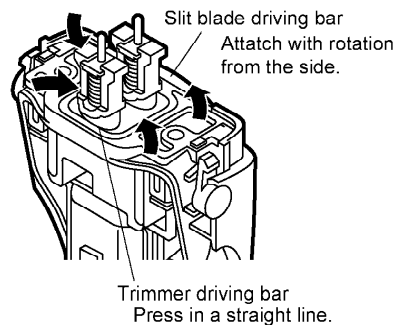
4.3. Module

Align the projection of switch select button on housing A with the groove of switch plate on module.



4.4. Driving bars

Set the trimmer driving bar and the slit blade driving bar.

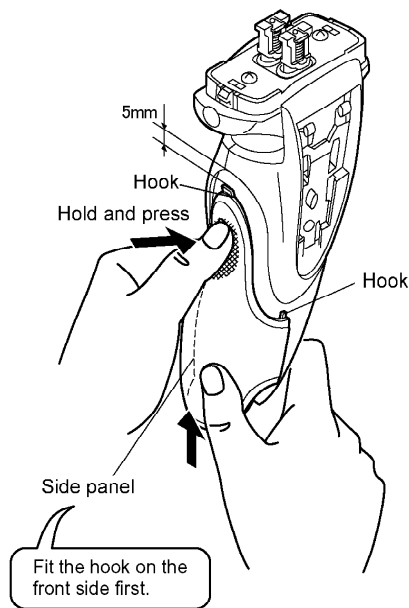


4.5. Side panel

Set the side panel on the body and slide it up until clicking the hook of panel at three locations.

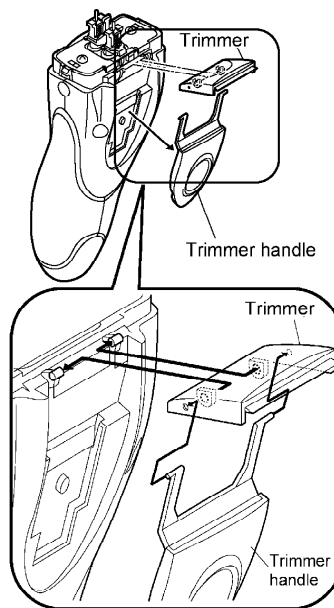
NOTE: Make sure that the left and right side panels are firmly fitted on both rear and front side.

Fit the front side of hook first, then on top and rear side.



4.6. Trimmer

1. Make sure if the bosses of handle arm insert into the holes of trimmer.
2. Align the bosses of housing with the holes of trimmer, and hook the trimmer handle.
3. Confirm its operation or smooth movement of trimmer.



5. TROUBLESHOOTING GUIDE

(Refer to **WIRING CONNECTION DIAGRAM**)

<TROUBLE>	<CHECK.>	<REME
<p>Motor does not rotate.</p> <p>Does not charge.</p> <p>Functions for a moment and stops.</p> <p>Does not operate by AC power source.</p>	<p><CHECK CHARGING ADAPTOR.></p> <p>Connect the rated voltage to the normal main unit by the charging adaptor.</p> <p>Check if the charge status lamp of main unit is lit.</p> <p>Supply the rated voltage to the adaptor and measure the voltage. OK if it is approximately DC 5.8V between the terminals of the plug with no-load operation.</p>	<p>NO Replace ch</p> <p>→ adaptor.</p>
↓ OK		
	<p><CHECK RECHARGEABLE BATTERIES.></p> <p>Okay if the voltage of rechargeable batteries is more than approximately 1.2V DC between (+) and (-) terminals.</p>	<p>NO Replace bo</p> <p>→ recharge- able batteri the same time.</p>

(Replace two rechargeable batteries at the same time even though one battery is defective due to series connection.)

↓ OK

<CHECK SWITCH CONTACT.>

Okay if there is a continuity and no deformation of switch terminals.

NO → Repair contact
replace housing A.

↓ OK

<CHECK MOTOR.>

Okay if motor rotates when DC2.4V is applied to (+) and (-) terminals.

NO → Replace motor

↓ OK

<CHECK MODULE.>

Wire the main unit returned from a customer refer with the following figure,
and connect the rated voltage to it by the charging adaptor.
Take out the left battery (viewed from the front). Connect the chassis and (-) terminal of battery with the lead wire. Check charging current with the wire between chassis and (+) terminal of battery.
Check charging current, if it is in between 700mA to 880mA.

NO → Replace motor

↓ OK (remove the wire and reassemble the unit
attach the blades and foil frame with o
foils.)

<CHECK MODULE.>

Connect the rated voltage to the main unit with empty charge capacity by the charging adaptor.
Check if the motor rotates more than one minutes by AC power source when turning on the switch.

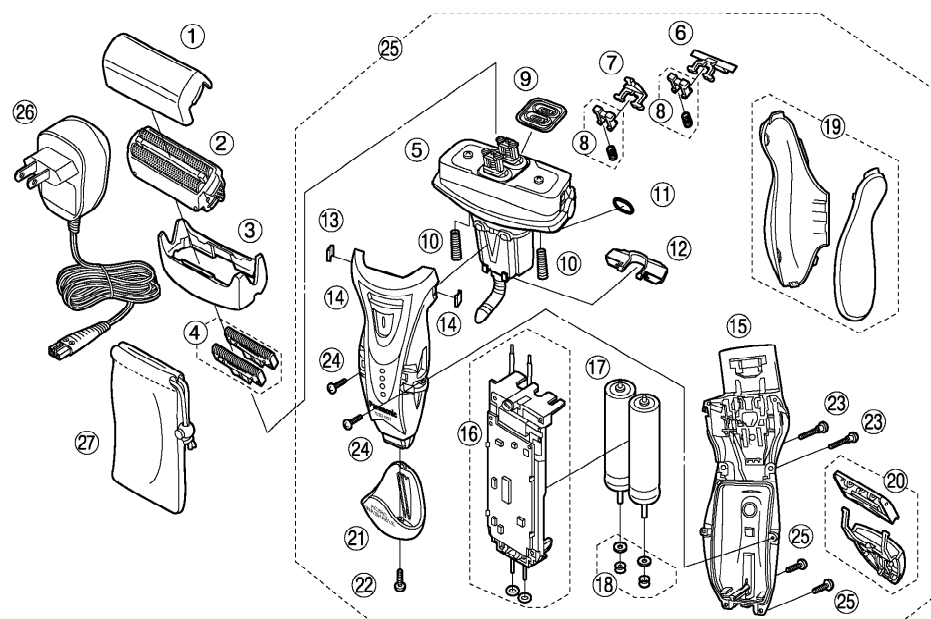
NO → Check the soldering point
from (A) to

↓ OK

Replace motor

Ref. No.	Part No.	Part Name & Description	Remarks			Per Unit
<u>1</u>	WES8044X7158	PROTECTIVE CAP			(BG)	1
<u>2</u>	WES9085PC	OUTER FOIL		for USA		1
2	WES9085C	OUTER FOIL		for CANADA		1
<u>3</u>	WES7046S0047	OUTER FOIL FRAME			(BG)	1
<u>4</u>	WES9064PC	INNER BLADE		for USA		1ST
4	WES9064C	INNER BLADE		for CANADA		1ST
<u>5</u>	WES7046L1009	LINEAR MOTOR ASSEMBLY			(BG)	1
<u>6</u>	WES7046L1087	TRIMMER DRIVING BAR			(BG)	1
<u>7</u>	WES7046L1077	SLIT BLADE DRIVING BAR			(BG)	1
<u>8</u>	WES7046L0587	SPRING AND STOPPER	*B	(2PCS/PK)	(BG)	2
<u>9</u>	WES8080L0327	WATERPROOF RUBBER				1
<u>10</u>	WES7046L0227	FLOAT SPRING	*B	(2PCS/PK)	(BG)	2
<u>11</u>	WES7046L0967	O-RING			(BG)	1
<u>12</u>	WES7046L0237	TUBE HOLDER			(BG)	1
<u>13</u>	WES8176L0167	HOUSING CLIP	*C			2
<u>14</u>	WES7035S3058	HOUSING A			(BG)	1
<u>15</u>	WES7046S3068	HOUSING B			(BG)	1
<u>16</u>	WES7035L2128	MODULE			(BG)	1
<u>17</u>	WES7038L2508	RECHARGEABLE BATTERY		Ni-Mh TYPE	(BG)	1
<u>18</u>	WES7025L0977	WASHER & O-RING SET	*B	(2PCS/PK)	(BG)	2
<u>19</u>	WES7045A3367	SIDE PANEL			(BG)	1
<u>20</u>	WES8045A1507	TRIMMER				1
<u>21</u>	WES7035A3848	BOTTOM COVER			(BG)	1
<u>22</u>	WES7043L9008	TAPPING SCREW		M2-6	(BG)	1
<u>23</u>	WES7046L6008	P TIGHT SCREW	*C	K2-12	(BG)	2
<u>24</u>	WES7043L6058	TAPPING SCREW	*C	K2-8	(BG)	4
<u>25</u>	WES7035S3038	BODY BLOCK			(BG)	1
<u>26</u>	WES7035K7658	CHARGING ADAPTOR		A-2 PLUG for USA	(BG)	1
26	WES7035K7668	CHARGING ADAPTOR		A-2 PLUG for CANADA	(BG)	1
<u>27</u>	WES4025K7007	SOFT CASE			(BG)	1
<u>28</u>	WES8093H7057	CLEANING BRUSH		for CANADA		1
-	WES7035S8108	OPERATING INSTRUCTIONS			(BG)	1

6.2. ES7037



NOTE:

*A=available as an optional accessory

*B=only available as set

*C=available individually

Ref. No.	Part No.	Part Name & Description	Remarks			Per Unit
1	WES8044X7158	PROTECTIVE CAP			(BG)	1
2	WES9085PC	OUTER FOIL				1
3	WES7046S0047	OUTER FOIL FRAME			(BG)	1
4	WES9064PC	INNER BLADE				1ST
5	WES7046L1009	LINEAR MOTOR ASSEMBLY			(BG)	1
6	WES7046L1087	TRIMMER DRIVING BAR			(BG)	1
7	WES7046L1077	SLIT BLADE DRIVING BAR			(BG)	1
8	WES7046L0587	SPRING AND STOPPER	*B	(2PCS/PK)	(BG)	2
9	WES8080L0327	WATERPROOF RUBBER				1
10	WES7046L0227	FLOAT SPRING	*B	(2PCS/PK)	(BG)	2
11	WES7046L0967	O-RING			(BG)	1
12	WES7046L0237	TUBE HOLDER			(BG)	1
13	WES8176L0167	HOUSING CLIP	*C			2
14	WES7037S3058	HOUSING A			(BG)	1
15	WES7046S3068	HOUSING B			(BG)	1
16	WES7037L2128	MODULE			(BG)	1
17	WES7038L2508	RECHARGEABLE BATTERY		Ni-Mh TYPE	(BG)	1
18	WES7025L0977	WASHER & O-RING SET	*B	(2PCS/PK)	(BG)	2
19	WES7046H3367	SIDE PANEL			(BG)	1
20	WES8046H1507	TRIMMER				1
21	WES7037H3848	BOTTOM COVER			(BG)	1
22	WES7043L9008	TAPPING SCREW		M2-6	(BG)	1
23	WES7046L6008	P TIGHT SCREW	*C	K2-12	(BG)	2
24	WES7043L6058	TAPPING SCREW	*C	K2-8	(BG)	4

Ref. No.	Part No.	Part Name & Description	Remarks			Per Unit
<u>25</u>	WES7037S3038	BODY BLOCK			(BG)	1
<u>26</u>	WES7035K7658	CHARGING ADAPTOR		A-2 PLUG	(BG)	1
<u>27</u>	WES4025K7007	SOFT CASE			(BG)	1
-	WES7037S8008	INDIVIDUAL BOX			(BG)	1
-	WES7035S8108	OPERATING INSTRUCTIONS			(BG)	1